Electronic Ack	cnowledgement Receipt
EFS ID:	5347412
Application Number:	10773646
International Application Number:	
Confirmation Number:	7644
Title of Invention:	CHANNEL ESTIMATION FOR A WIRELESS COMMUNICATION SYSTEM WITH MULTIPLE PARALLEL DATA STREAMS
First Named Inventor/Applicant Name:	Ashok Mantravadi
Customer Number:	23696
Filer:	Stanton Connell Braden/Leeanne Lawlor
Filer Authorized By:	Stanton Connell Braden
Attorney Docket Number:	030262
Receipt Date:	17-MAY-2009
Filing Date:	05-FEB-2004
Time Stamp:	18:54:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$810
RAM confirmation Number	6146
Deposit Account	170026
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filling, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

File Listing	g:				
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.
1	Request for Continued Examination (RCE)	030262_RCE.pdf	573610 0585737be0c243f339626c373(80c5b9a7f 8de0	no	3
Warnings:					
nformation:					
2	Information Disclosure Statement (IDS) Filed (SB/08)	030262_SIDS.pdf	609806	no	5
			7840569788545b1994374d16545e45923506 28794		
Warnings: Information:					
within the Imag Documents or I	s. References. If you chose not to include Uge File Wrapper (IFW) system. However, no on Patent Literature will be manually review.	data will be extracted from this ewed and keyed into USPTO sys	form. Any additional data su		
3	3 Foreign Reference JP2001-352311.pdf	JP2001-352311.pdf	cddf378a0846ad9983361edb2b790105452 b78f		
Warnings:					
Information:					
4 Foreign Reference	Foreign Reference	JP2002-043991.pdf	86126	no	1
			0ef5868426635df5b03d2130c2d8bb98a9b 9ac1f		
Warnings:					
Information:					
5	Foreign Reference	JP2003-304176.pdf	60596	no	1
			4177bd56ca63470c59be10a454a796433ad ada49		
Warnings:					
Information:					
6	Foreign Reference	SE199603188.pdf	227169 0239800516bbb013db02d91666b21a198	no	5
Warnings:	<u> </u>		10045		
Information:					
	Foreign Reference	WO97040587.pdf	1401693	no	30
7			1030319903077071232303300032370		
7 Warnings:			1766		

8	NPL Documents	Robust_channel_estimation_fo r_OFDM_systems_with_rapid_	478478	no	5
°	W E Documents	dispersive_fading_channels.pdf	d44a12af1a6098e2b2/13af0e/5365b65bc b9253	110	,
Warnings:					
Information:					
9	Foreign Reference	ISR_PCT_US05_003156_ISA_EP	195103	no	6
	9 Poleigh Reference O.pdf	O.pdf	442x87264sx88ddb0011c04b8s/20065779 9e53b		
Warnings:					
Information:					
10	NPL Documents	030262WO_2005-10-06_WO.	5389747	no	33
		pdf	d2x81x2279e5005a9affd000416x24661665 6x9		
Warnings:					
Information:					
11	NPL Documents	030262WO_2007-05-09_IPRP.	1163421	no	7
		pdf	eee4305456bb522f801ca9e635328c518a5 ba241		
Warnings:					
Information:					
12	NPL Documents	Ling_F_Optimal_Reception.pdf	284364	no	10
'-	THE DOCUMENTS		16ce425137e66cfb2a73271021216533b4cac 67f		
Warnings:					
Information:					
13	Fee Worksheet (PTO-875)	fee-info.pdf	30737	no	2
	, ,		a0c15796b0d9986248e0339bad08651eb5c 47asb		
Warnings:					
Information:					
	Total Files Size (in bytes): 10561465				

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-[d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.